RECEIVED

BEST AVAILABLE COPY

GROUP 3600 and Trademark Office

PTO/SB/08A (08-03) gh:07/31/2006 OMB 0651-0031 U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/8TQ

INFORMATION DISCLOSURE ATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known					
Application Number	09/435,504				
Filing Dale	11/6/1999				
First Named Inventor	Fernandez, Dennis S.				
Art Unit	3626				
Evaminer Name	Morgan, Robert W.				
Attorney Docket Number	FERN-P006S				
Allomay Cooler	是是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一				
	The state of the s				

	0 2	II S PATENT	F DOCUMENTS Percentage of 1997 P
aminer C	Cle 15 Document Number	Publication Date MM-DD-YYYY	POCUMENTS Name of Patentee or Pages (Columns Unes, Where Applicant of Cited Document) Relevant Passages or Relevant Passages or Relevant
	Number-Kind Code 2 (8 Month)	08-10-1999	Pai, et al.
uM .	1 45 5.935.247		Muffic
UV\	2 5 943 423	08-24-1999	Widnes To Applie
	US		
	ius		
	US	<u> </u>	
	US		
	US-		
	US-		
	US-		→ · · · · · · · · · · · · · · · · · · ·
	US-		
	US-		
	US-		
	US-	_	
	US-	_	
	US-		

xaminer nitials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	TO
RWM	3	Country Code ³ "Number ⁴ "Kind Code ³ (if known) 0 543 612 A3	05-26-1993			
						-

	4-				Date	
	() (•	Considered	\$1410C
Examiner	1 1 1	A	•			0.1.11:
Signature	1 10~10~71	il WARRAM				the state of the same of the s

*EXAMINER: Initial if reference considered, whether or not diation is in conformance with MPEP 609. Draw line, through diation, if flot infconformance and not considered, include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional): "See Kinds Codes of undered, include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional): "See Kinds Codes of undered, include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional): "See Kinds Codes of USPO Patent Documents at www.uspto.gov or MPEP 901.04. Tenter Office at issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the relgn of the Emperor must precede the serial number of the patent document. Wind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language. Translation is altached.

Translation is attached.

This collection of Information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, useful or process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments including gathering, preparing, and submitting the complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent on the amount of time you require to complete this form and/or suggestions for COMPLETED FORMS TO THIS ADDRESS. SENO and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.

To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form. call 1-800-PTO-9199 (1-800-786-9199) and select bottom 2.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

collection of information unless it co

Examine	er Q	obet More	M~		Date Considered	8/2	5/65	
						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		100
	-							
-							7 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14	
								_
			\sim					
	· · · · ·						10.14	**************************************
						74,24		
ials*	NO.	numbe	journal; senal; syr r(s); publisher; city	and/or country	Where published			
aminër	Cite No.	include name of the autho	IT (IN CAPITAL LE	(ERS), title of	a elc\ date pa	ige(s) volu	e); title of me-issue.	という。
et 2	Y & 4. S.		TENT CITERA		AT SITE			
na ale	se es man	of 2	Examiner Nan Attorney Dock	Pt	ERN-P006			
	•	y sheets as necessary)	An Units	7.	626 Iorgan, Robert	Wilder St		
FORM	AATIC MENT	ON DISCLOSURE L'BY APPLICANT	The state of the s		ernandez, Den	is S.		35°
		TO PODEND	2) 2) 2 March 2014	7	1/6/1999			

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is elacted. This collection of information is required by 37 CFR 1.98. The information is required to obtain criterian a benefit by the public which is to file (english) to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete complete application form to the USPTO. Time will vary depending upon the included a case. Any commission of the gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the included a case. Any commission of the complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer U.S. Patent and amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer U.S. Patent and amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer U.S. Patent and amount of time you require to complete this form and/or suggestions for reducing the sent to the Chief Information Officer U.S. Patent and amount of time you require to complete this form and/or suggestions for reducing the sent to the Chief Information Officer U.S. Patent and amount of time you require to complete this form and/or suggestions for reducing the sent to the Chief Information Officer U.S. Patent and any of the process of BEST AVAILABLE COPY

BEST AVAILABLE COPY

SEP 9 2004

GROUP 360

JUN 2 2 2005 8

TE TRACE

PTO/SB/08A (08-03) Approved for use through 07/31/2006. OMB 0651-0031

Approved for use through 07/31/2006. OMB 0631-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

er the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Sheet 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known				
Application Number	09/435,504	_		
Filing Date	11/6/1999			
First Named Inventor	Fernandez, Dennis S.			
Art Unit	3626			
Examiner Name	Morgan, Robert W.			
Attorney Docket Number	FERN-P006	7		

	U. S. PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
	↓	Number-Kind Code ² (* Innovn)		-					
RWM	1	^{US-} 6,640,211	10/28/2003	Arthur L. Holden					
		US-							
		US-							
	 	US-							
	†	US-							
		US-							
		US-							
	†	US-							
	1	US-							
-	 	US-							
		US-							
	1	US-							
	1	บร-							
	 	US-							
	 	US-							
	1	US-							
	1	US-							
	\top	US-							
	 	US-							

		FORE	IGN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁵ (# known)	MM-DD-YYYY		Or Relevant Figures Appear	T°
						┡
						L
				•		

				,
Examiner	$D \cup D \cup D$	Λ	Date	-1/-
	I WY. A	Moran	Considered	014105
Signature	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	// 100 mm	Collabolito	81 11 4
	1 10000	V 7 10 1 700 0		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation it not in conformance and not considered, include copy of this form with next conformanciation to applicant. 'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 'Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 'Kind of document the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 'Applicant is to place a check mark here if English tanguage Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ander the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it contains a valid OMB control number.

SENT & TE	Substitute for form 1449/F	TO			Complete if Known	
	- Substitute for form 1443/F	10		Application Number	09/435,504	
	INFORMATION	ON DIS	CLOSURE	Filing Date	11/6/1999	
	STATEMENT BY APPLICANT	First Named Inventor	Fernandez, et al.			
	///			Art Unit	3626	
	(Use as many sheets as necessary)	Examiner Name	Morgan, Robert W.			
	Sheet 2	of	2	Attorney Docket Number	FERN-P006	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²

Examiner Signature	Morozan	Date Considered	8/4/05
	100 100 1	W 1 men aga a 11 11 1 1 1	

*EXAMINER: Initial if reference considered, whether or out citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiatily is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (10-95)
Appl for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet		of	ء	

Complete if Known					
Application Number	TBD	7			
Filing Date	11/06/99				
First Named Inventor	FERNAN DEZ	- 10 E			
Group Art Unit	†BD	¥ E ⊙c			
Examiner Name	TBD	/重/			
Attorney Docket Number	FERN - 7606	100 E			

				U.S. PATENT DOCU	IMENTS	
Examiner Initials*	Cite No.1	U.S. Patent D	Document Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
RUM		5429506		Bromy et al.	07-04 1995	
RWM		5706498	?	FUJIYAMA et al.	01-06-1998	
RWM		5776767		STEVENS et al.	07-07-1998	
LWK		5795716		CHEE et al.	08-18-1998	
RWM		5940 800		HILDEBRAND et al.	08-17-1999	
1						
				•		
						
		<u> </u>				
						<u> </u>
		-			4 ()	

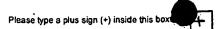
				FORE	IGN PATENT DOCUMEN	rs		
Examiner	Cite	F	oreign Patent Do	cument	Name of Patentee or	Date of Publication of	Pages, Columns, Lines, Where Relevant	
Initials*	No.1	Office ³	Number ⁴	Kind Code ⁵ (if known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T ₆
					· · · · · · · · · · · · · · · · · · ·			
		† †						
	-							
	•							

Examiner 6 /	0.	Date	0/11/	
Signature	Malana	Considered	8/4/05	
Signature Knyrk	Morgan		14	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through chation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter.Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08B (10-96)
Application use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitut	e for form 1449B/P	τO		Complete if Known				
				Application Number	43D	0 🖺		
INFC	RMATIO	NC	ISCLOSURE	Filing Date	11/06/99	Α		
STATEMENT BY APPLICANT				First Named Inventor	FERNANDEZ			
רוט	. –		ALLEGAM	Group Art Unit	TBD	- C		
	(use as man)	sheel	s as necessary)	Examiner Name	TBD	24.		
Sheet	2	of	2	Attorney Docket Number	FERW-POOG	98		
						<u> </u>		

		T ₁	7
		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	72
RWH		DYRNESS C., "Adventures in Bioinformatics - Where Datacrunching meets the Double Helix", Techcapital magazine, November / Decomber 1998.	
<u></u>			
			_

Examiner Signature	Popert	Morgan	Date Considered	84/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

to Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

bstitute for form 1449/PTO

Sheet 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

	Complete if Known					
i	Application Number	09/435,504				
ĺ	Filing Date	11/6/1999				
ĺ	First Named Inventor	Fernandez, Dennis S.				
ĺ	Art Unit	3626				
ĺ	Examiner Name	Morgan, Robert W.				
1	Attorney Docket Number	FERN-POO6				

U. S. PATENT DOCUMENTS Cite No.1 Publication Date Name of Patentee or Pages, Columns, Lines, Where **Document Number** Examiner Initials* MM-DD-YYYY Applicant of Cited Document Relevant Passages or Relevant Figures Appear Number-Kind Code² (# known) ^{US-} 5,935,247 RWM' 08-10-1999 ^{US-} 5,943,423 RWM Muftic 08-24-1999 US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-US-

	FOREI	GN PATENT DOCU	MENTS		
Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
	Country Code ³ "Number ⁴ "Kind Code ⁶ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	Τ°
· 3	0 543 612 A3	05-26-1993			
					<u> </u>
					╙
	No.1	Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Cite No.¹ Problem Patent Document Publication Date Country Code³ "Number *" Kind Code* (if known) Publication Date MM-DD-YYYY	No.¹ Date Applicant of Cited Document MM-DD-YYYY Country Code³ "Number ⁴"Kind Code⁵ (if known)	Cite No. 1 Country Code Number 4 Kind Code (if known) Country Code Code Code Code Code Code Code Code

*				
Examiner Rales #	11) Mari	- 4-	Date Considered	8/4/n=.
1 8000	10.			4 1105

*EXAMINER: Initial if reference considered, whit ier or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with new communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Traisation is attached.
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

JUN 2 5 2004 8

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0851-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE of the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	ute for form 1449/PTO			Complete if Known		
Subsilit	are for form 1443/F 10			Application Number	09/435,504	
INF	ORMATION	DIS	CLOSURE	Filing Date	11/6/1999	
STATEMENT BY APPLICANT				First Named Inventor	Fernandez, Dennis S.	
	<i>(</i>)			Art Unit	3626	
(Use as many sheets as necessary)				Examiner Name	Morgan, Robert W.	
Sheet	2	of	2	Attorney Docket Number	FERN-P006	

·	NON PATENT LITERATURE DOCUMENTS					
T²	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	niner Cite No.¹ Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate) the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number(s), publisher, city and/or country where published.				
	RECEIVED					
	JUL 7 2004					
	GROUP S600					
			•			

Examiner	01	ΔΔ.	Date	0. /. /
Signature	Kolvert	//when	Considered	814105

*EXAMINER: Initial if reference considered, whether or not/diation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. OO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.